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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,897	12/29/2003	Anthony Joonkyoo Yun	PALO-002	7432
	7590 02/22/200 FIELD & FRANCIS LI	EXAMINER		
1900 UNIVERS	SITY AVENUE	RAMACHANDRAN, UMAMAHESWARI		
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			1617	
			MAIL DATE	DELIVERY MODE
			02/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/748,897	YUN ET AL.	
Examiner	Art Unit	
UMAMAHESWARI RAMACHANDRAN	1617	

RAMACHANDRAN			
The MAILING DATE of this communication appears on the cover sheet with	h the c	orrespondence add	ress
THE REPLY FILED <u>28 January 2008</u> FAILS TO PLACE THIS APPLICATION IN CONDITIO	N FOF	R ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on the same day as filing a Not application, applicant must timely file one of the following replies: (1) an amendment, a application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compl for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be periods:	ffidavit iance v	, or other evidence, whith 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expiresmonths from the mailing date of the final rejection. b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date se no event, however, will the statutory period for reply expire later than SIX MONTHS from the Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHE MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).	mailing	date of the final rejection	n.
Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 C have been filed is the date for purposes of determining the period of extension and the corresponding all under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reposet forth in (b) above, if checked. Any reply received by the Office later than three months after the mail may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	mount o oly origii	of the fee. The appropria nally set in the final Offic	ate extension fee e action; or (2) as
 The Notice of Appeal was filed on A brief in compliance with 37 CFR 41.37 mu filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(Notice of Appeal has been filed, any reply must be filed within the time period set forth AMENDMENTS 	(e)), to	avoid dismissal of the	
3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a (a) They raise new issues that would require further consideration and/or search (se			cause
 (b) ☐ They raise the issue of new matter (see NOTE below); (c) ☐ They are not deemed to place the application in better form for appeal by material appeal; and/or 	•		ne issues for
(d) They present additional claims without canceling a corresponding number of final	ılly reje	cted claims.	
NOTE: (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Notice o	on-Cor	mpliant Amendment (I	PTOL-324).
5. Applicant's reply has overcome the following rejection(s):		:	. t
 Newly proposed or amended claim(s) would be allowable if submitted in a sepa non-allowable claim(s). 	arate, t	imely filed amendmer	it canceling the
7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed:	⊠ will	be entered and an ex	xplanation of
Claim(s) objected to:			
Claim(s) rejected: 1, 3, 4, 11-28, 41, 62, 63. Claim(s) withdrawn from consideration:			
AFFIDAVIT OR OTHER EVIDENCE	a a Na	tion of Annual will not	he entered
8. The affidavit or other evidence filed after a final action, but before or on the date of filin because applicant failed to provide a showing of good and sufficient reasons why the a was not earlier presented. See 37 CFR 1.116(e).			
9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior entered because the affidavit or other evidence failed to overcome <u>all</u> rejections under showing a good and sufficient reasons why it is necessary and was not earlier presented.	appea ed. Se	l and/or appellant fails e 37 CFR 41.33(d)(1)	s to provide a).
10.	after er	itry is below or attach	ed.
11. The request for reconsideration has been considered but does NOT place the applica	ation in	condition for allowand	ce because:
12. ☐ Note the attached Information <i>Disclosure Statement</i> (s). (PTO/SB/08) Paper No(s) 13. ☑ Other: <u>Please see Note</u> .			
/SREENI PADMANABHAN/ Supervisory Patent Examiner, Art Unit 1617			

Note:

The amendments dated 1/28/2008 will be entered as there are no amendments to the claims.

Applicants' arguments regarding the rejections have been fully considered and found not persuasive. The rejections of record wil still be maintained as the claims are not allowable over prior art of record.

Claims 1, 3, 4, 13, 14, 16, 18-22, 28, 41, 62, 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gambardella et al. (Metabolism, 46, 3, March, 1999, p 291-297). Gambardella teach a method of treating a condition deficient in parasympathetic activity in cancer patients by oral administration of propranolol. Gambardella teach that autonomic nervous system dysfunction in elderly cancer patients is rectified by the propranolol administration. Thus Gambardella teach the administration of the same drug, a beta blocker (propranolol) as claimed in the instant invention to the same overlapping patient population in a condition caused by an autonomic nervous system abnormality. It would have been obvious to one of ordinary skill in the art at the time of the invention from Gambardella's teachings that administration of propranolol modulates or alters the sympathetic and parasympathetic activities of the autonomic nervous system. Modulation of sympathetic and parasympathetic activities by a beta blocker such as propranolol is clearly a result effect parameter and it would have been obvious to one of ordinary skill in the art at the time of the invention that substantially equal parasympathetic and sympathetic functions can be reached by modulating such activities.

Claims 1, 3, 4, 21, 28, 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brevetti et al. (Brief communications, Nov 1981, p 938-941). Brevetti et al. teach an intravenous and oral administration of propranolol for the treatment of Shy-Drager syndrome, a severe degeneration of the autonomic nervous system. The reference teaches a sympathetic bias and a parasympathetic bias in at least a portion of said autonomic nervous system. Thus the reference teach the administration of the same drug, a beta blocker (propranolol) as claimed in the instant invention to the same overlapping patient population in a condition caused by an autonomic nervous system abnormality. It would have been obvious to one of ordinary skill in the art at the time of the invention that administration of propranolol modulates or balances the sympathetic and parasympathetic activities of the autonomic nervous system by treating Shy-Drager syndrome condition and when balancing such activities a stage is reached where sympathetic and parasympathetic activities are substantially equal. Also, modulation of sympathetic and parasympathetic activities by a beta blocker such as propranolol is clearly a result effect parameter and it would have been obvious to one of ordinary skill in the art at the time of the invention that substantially equal parasympathetic and sympathetic functions can be reached by modulating such activities.

Claims 1, 21, are rejected under 35 U.S.C. 103(a) as being unpatentable over Nordling et al. (E Urol, 1992, 21, 328-331). Nordling et al. teach the administration of non-selective beta-adrenergic receptor antagonist propranolol reduced the urethral inflammation. The reference also teaches that severity of urethral inflammation was increased in spontaneous hypertensive rats, which have an increased sympathetic tone as compared to the normotensive rats. Hence by reducing urethral inflammation by administration of propranolol, sympathetic tone is decreased. Thus the reference teach the administration of the same drug, a beta blocker (propranolol) as claimed in the instant invention to the same overlapping patient population in a condition caused by an autonomic nervous system abnormality. It would have been obvious to one of ordinary skill in the art at the time of the invention that administration of propranolol modulates or alters the sympathetic and parasympathetic activities of the autonomic nervous system. Also, modulation of sympathetic and parasympathetic activities by a beta blocker such as propranolol is clearly a result effect parameter and it would have been obvious to one of ordinary skill in the art at the time of the invention that substantially equal parasympathetic and sympathetic functions can be reached by modulating such activities.

Claims 1, 3, 4, 11-12, 15, 17, 21, 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Majcherczyk et al. (Br J Pharmacol, 1987, 91(4), 711-4). Majcherczyk et al. teaches the increase in renal sympathetic nerve activity by propranolol in hypertensive rats (Abstract). Hypertension is an age-associated condition and the reference inherently teaches the sympathetic and non-sympathetic bias and a low sympathetic activity. It would have been obvious to one of ordinary skill in the art at the time of the invention that administration of propranolol modulates or alters the sympathetic and parasympathetic activities of the autonomic nervous system in the treatment of hypertension. Also, modulation of sympathetic and parasympathetic activities by a beta blocker such as propranolol is clearly a result effect parameter and it would have been obvious to one of ordinary skill in the art at the time of the invention that substantially equal parasympathetic and sympathetic functions can be reached by modulating such activities.

Claims 1, 21, 23-25, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davies et al. (The J of Intl Med Research, 1988, 16, 173-181). Davies et al. teach the administration of ibuprofen, a non-steroidal anti-inflammatory drug along with an anti-hypertensive agent and a beta-blocker such as propranolol to group of patients with hypertension. Thus the reference teach the administration of the same drug, a beta blocker (propranolol) as claimed in the instant invention to the same overlapping patient population in a condition caused by an autonomic nervous system abnormality. It would have been obvious to one of ordinary skill in the art at the time of the invention that administration of propranolol modulates or alters the sympathetic and parasympathetic activities of the autonomic nervous system in the treatment of hypertension. Hence it would have been obvious to one of ordinary skill in the art at the time of the invention that by modulating the parasympathetic nerves that influence cerebral blood flow during hypertension a substantially equal sympathetic and parasympathetic activities can be attained.

Claims 1, 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hill et al. (U.S. 6,449,507). Hill et al. teach the stimulation of nerve or nerve fibers (vagus nerve fibers, hypoglossal nerve fibers, phrenic nerve fibers, parasympathetic nerve fibers, and sympathetic nerve fibers, a vagal nerve) by using electrodes and electrical current and further comprising beta-blockers such as propranolol in a medical procedure such as beating heart surgery, arrythmias, vascular surgery, neurosurgery etc which are aging associated conditions (col. 2, lines 61-65, col. 17, claim 1, claim 10, col. 18, claim 19, co. 20, claim 50). It would have been obvious to one of ordinary skill in the art at the time of the invention that administration of propranolol modulates or alters the sympathetic and parasympathetic activities of the autonomic nervous system as Hill teaches the stimulation of parasympathetic and sympathetic nerve fibers. Hence it would have been obvious to one of ordinary skill in the art at the time of the invention that by modulating the stimulation of nerve fibers a substantially equal sympathetic and parasympathetic activities can be attained.



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